

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1. (Canceled) A flow-through oxygenator comprising an emitter for electrolytic generation of microbubbles of oxygen comprising an anode separated at a critical distance from a cathode and a power source all in electrical communication with each other, wherein the emitter is placed within or adjacent to a conduit for flowing water.

Claim 2. (Canceled) The emitter of claim 1 wherein the anode is a metal or a metallic oxide or a combination of a metal and a metallic oxide and the anode is platinum and iridium oxide on a support and the cathode is a metal or metallic oxide or a combination of a metal and a metallic oxide.

Claim 3. (Canceled) The critical distance of claim 1 which is 0.005 to 0.140 inches.

Claim 4. (Canceled) The critical distance of claim 1 which is 0.045 to 0.060 inches.

Claim 5. (Canceled) The product of claim 1 wherein the water is supersaturated with oxygen and of an approximately neutral pH.

Claim 6. (Canceled) A method for enhancing growth and yield of plants comprising the administration of supersaturated water on said plants.

Claim 7. (Canceled) The method of claim 6 wherein the supersaturated water is delivered to the plants in hydroponic culture or through drip irrigation.

Claim 8. (Currently Amended) A method for treating waste water comprising ~~passing the waste water through a conduit comprising the emitter of claim 1~~ aerating the waste water with microbubbles of oxygen.

Claim 9. (Newly Presented) The method of claim 8 wherein the microbubbles of oxygen are electrolytically generated by an emitter comprising an anode separated at a critical distance from a cathode and a power source all in electrical communication with each other.

Claim 10. (Newly Presented) The method of claim 8 wherein the emitter is placed within the container holding the waste water.

Claim 11. (Newly Presented) The method of claim 8 wherein the emitter is placed in a flow-through conduit and the waste water is passed through the conduit.

Claim 12. (Newly Presented) The method of claim 8 wherein the microbubbles of oxygen are generated by forcing oxygen through a microorifice.

Claim 13 (Newly Presented) The method of claim 8 wherein the solid matter of the waste is caused to flocculate.

Claim 14. (Newly Presented) The method of claim 8 wherein the oxygen content of the waste water is raised to at least 5 mg/l.